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ENGLISH DIGEST

Japanese Examined Patent Application: 51-1008, January 19, 1977

Title: Sealed Alkaline Storage Cell

Application: June 24, 1968

Sr: 43-43817  
47-4126

Inventor: I. Taniguchi et al

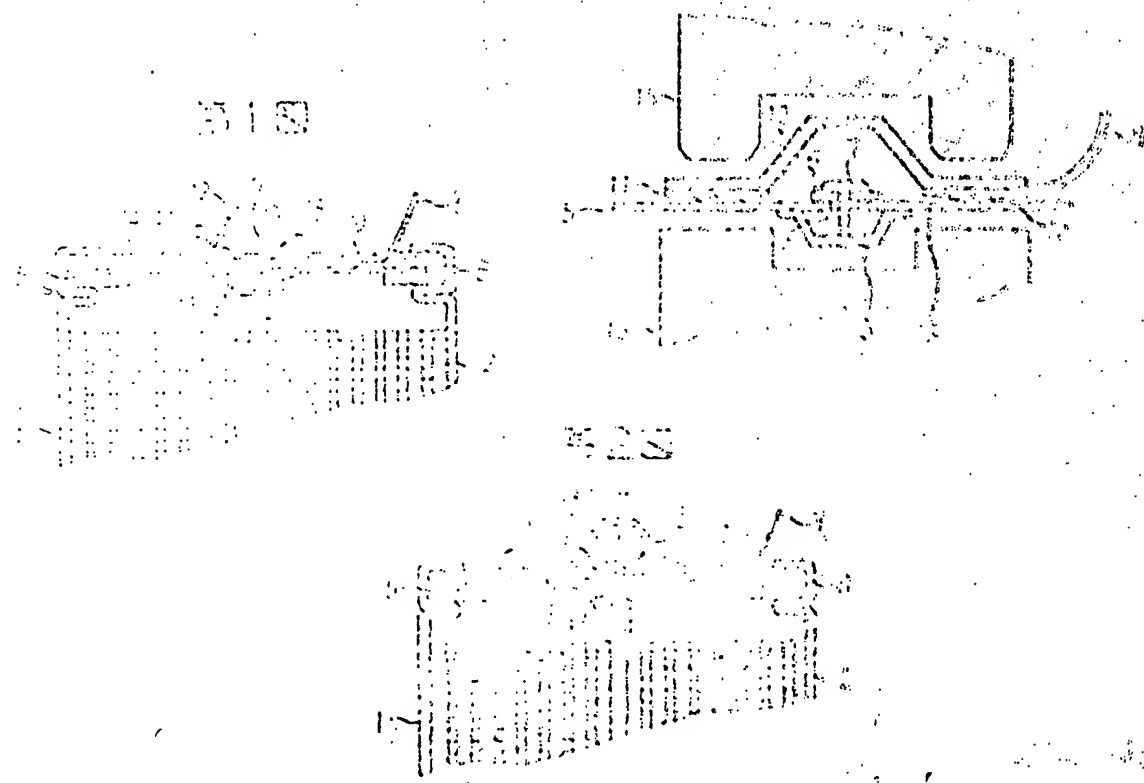
Applicant: Shin Kobe Denki and Hitachi Chemical Co.

It relates to a structure of a sealed alkaline cell.

When an alkaline cell is overcharged or cell reversal takes place, gas pressure builds up inside the cell, resulting in swelling of the cell or sometimes explosion. Therefore, evolved gases must be vented from the cell swiftly. Such gas is normally absorbed by one of the electrodes, but in case of vigorous gassing, it is not sufficiently fast.

In this invention, gas built up in the cell is relieved through a hole having a pin (8) with a spring mechanism (3), as shown in Figs. 1 and 2. The gas escapes through channel between terminal plate (11) and seal plate (13). As the gas pressure is lowered, the pin returns to the original position. The uniqueness of the invention is in that the integral terminal (11) having spikes (10) to provide vent and tab (9).

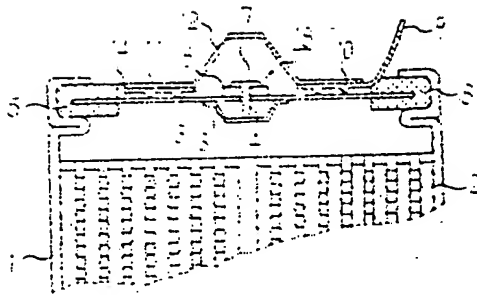
Claim: Sealed alkaline cell in which gas pressure relief is done by an integral unit composed of tab (9) and spikes (10).



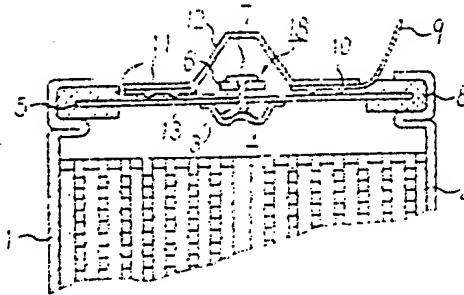
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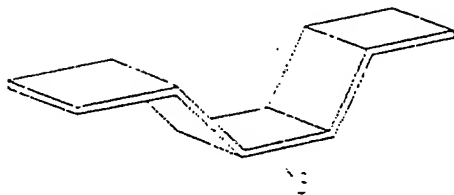
第1図



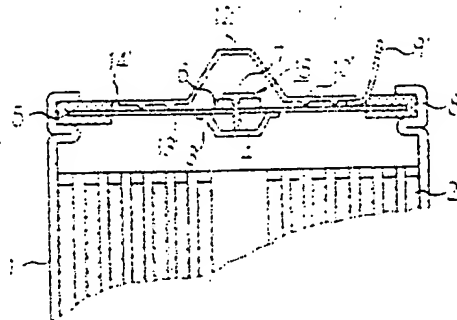
第2図



第3図



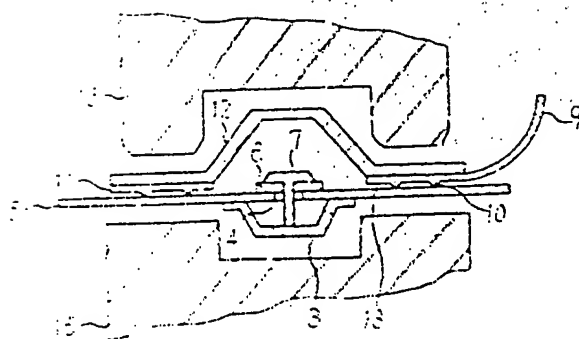
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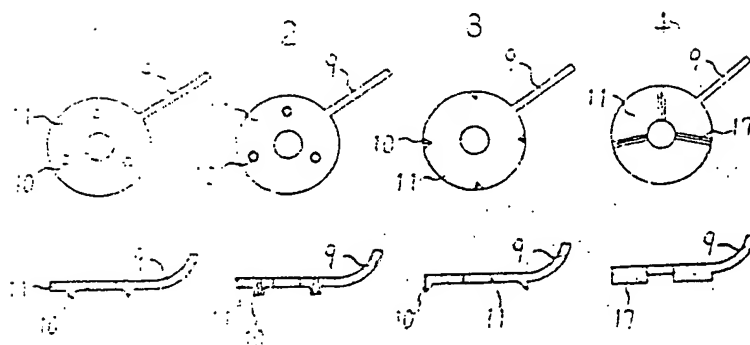
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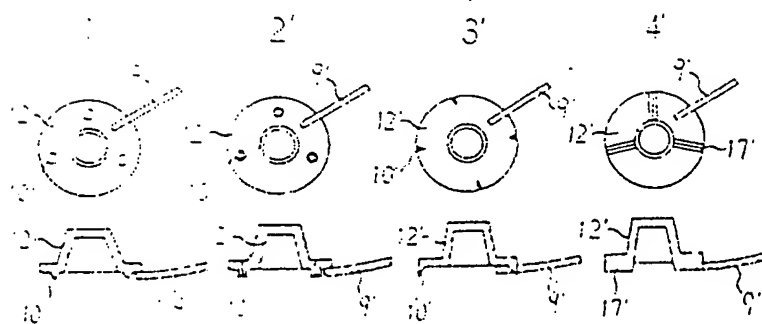
第5圖



第6圖



第7圖



ga 1008 (79)  
SA-1008 Sealed Alkaline Cell (Shin Kobe)

When gas pressure is  
built up inside a cell, the cell top pops open to relieve the gas.  
(Pub. 1/19/79, Appl. 6/24/68)

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